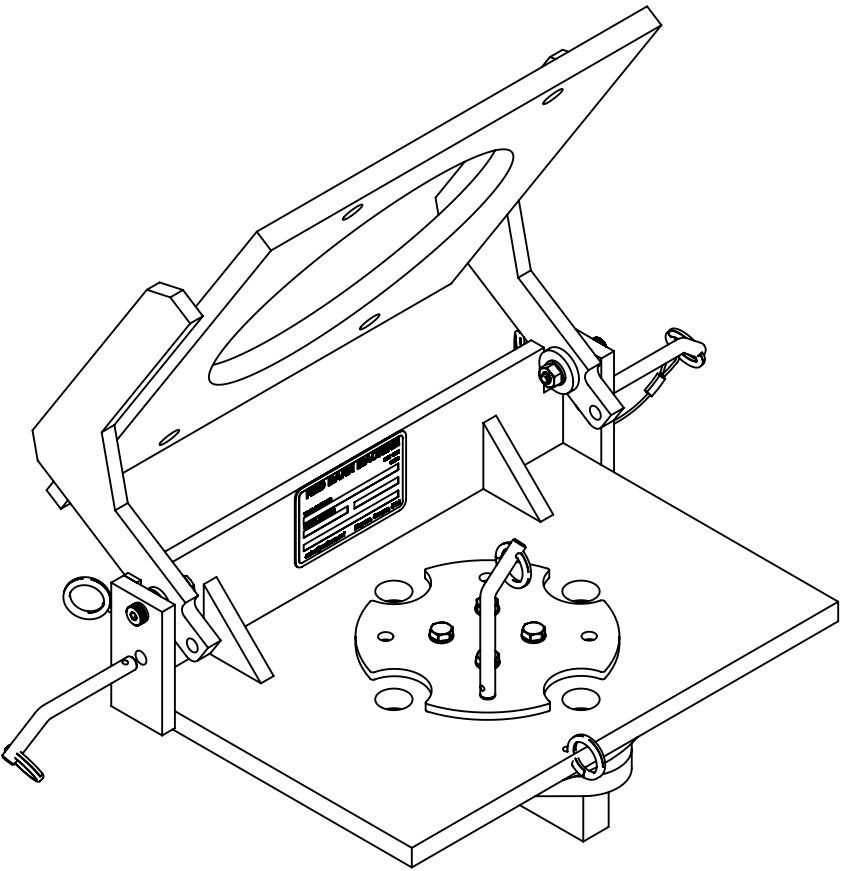
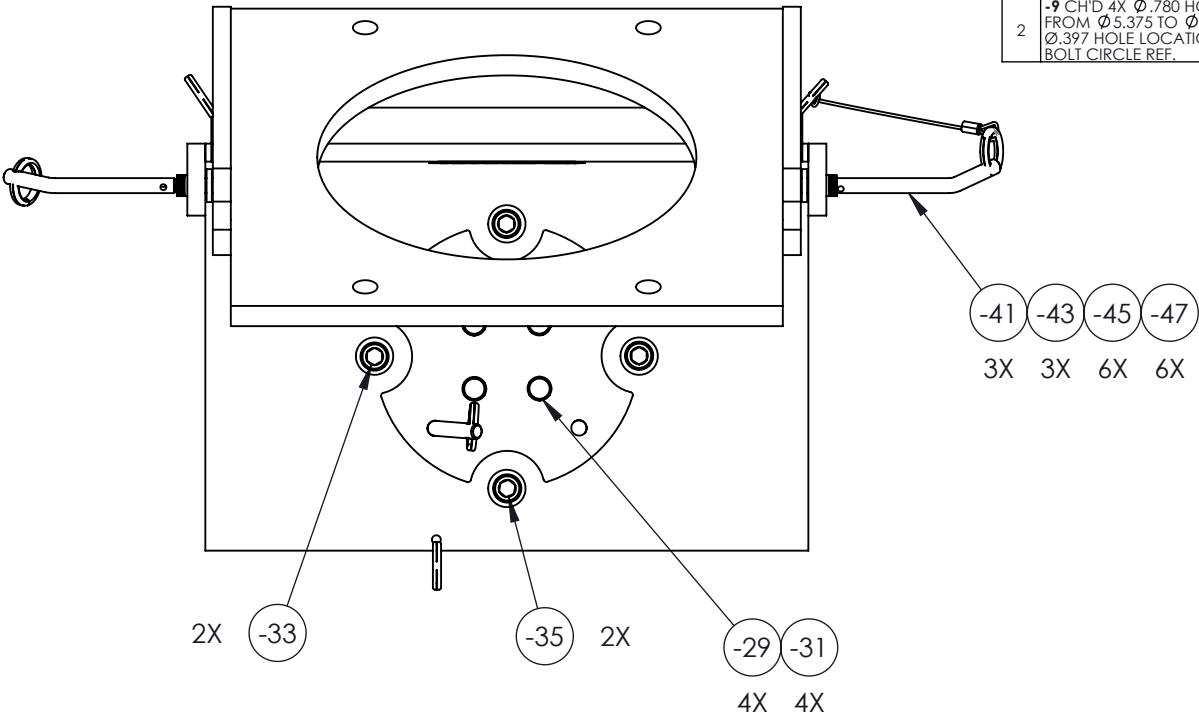


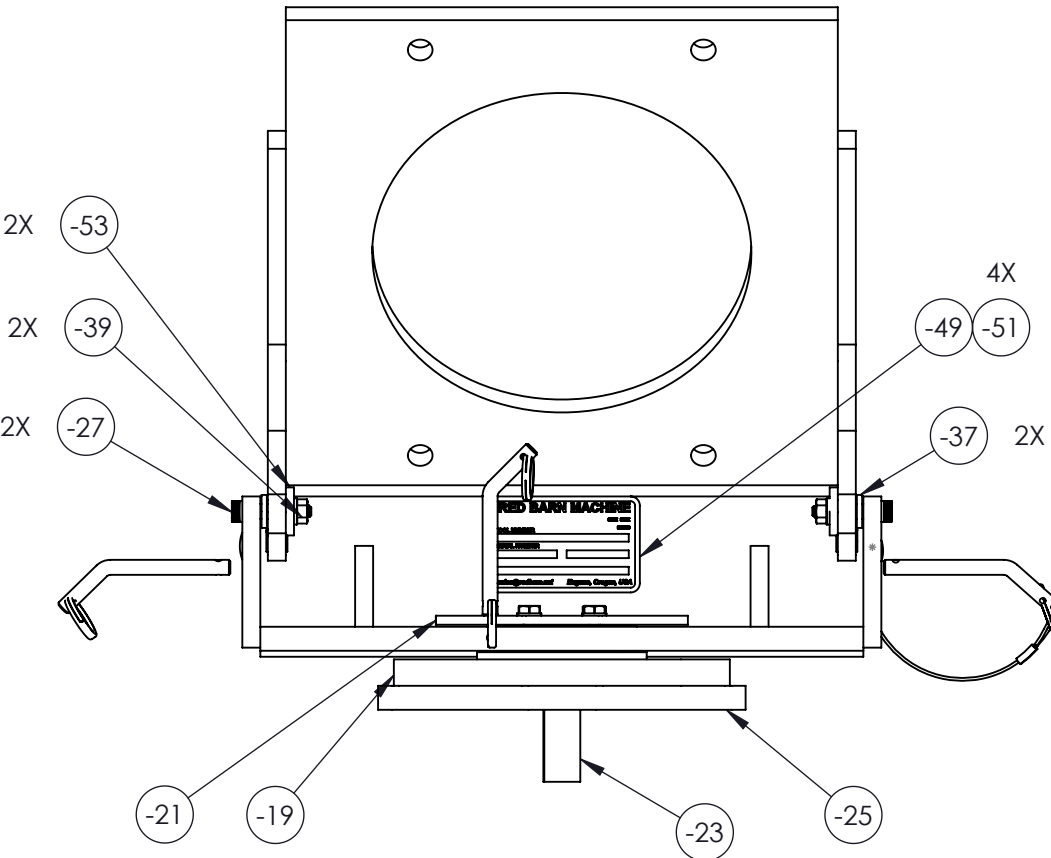
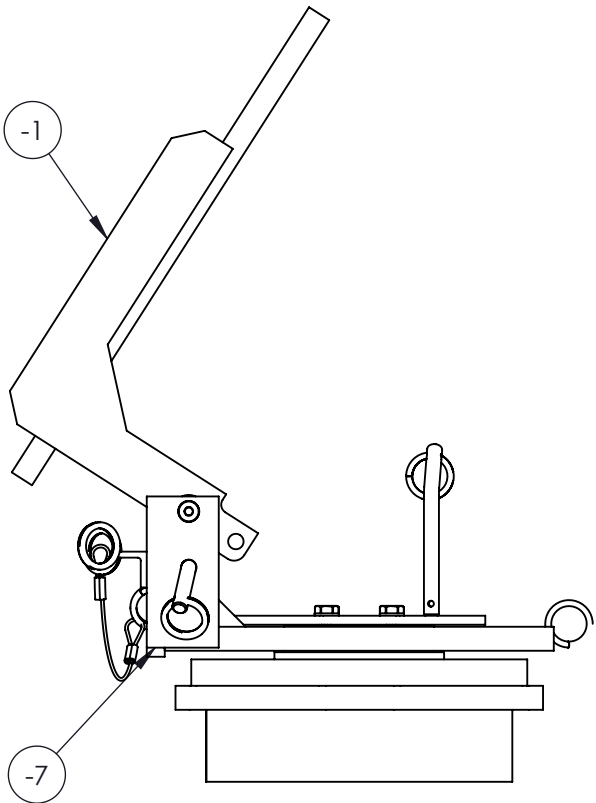
This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	ADDED SHEET 16 FOR -41. SHEET 5 CH'D -5 DIMENSION LOCATION WAS 6.255 IS 7.255	5/10/2013	CFS	
2	-9 CH'D 4X Ø.780 HOLE B.C. FROM Ø5.375 TO Ø5.512. -19 CH'D COUNTER BORED HOLES B.C. FROM Ø5.375 TO Ø5.512. -23 CH'D HOLE LOCATIONS FROM 5.38 TO 5.51. -25 CH'D 3/8-24 AND Ø.397 HOLE LOCATIONS FROM 2X 1.90 AND 2X 3.80 TO 2X 1.95 AND 2X 3.90 AND ADDED Ø5.512 BOLT CIRCLE REF.	7/12/2013	RJC	RW

TEO ATTACHED



SEE ATTACHED DEVIATION

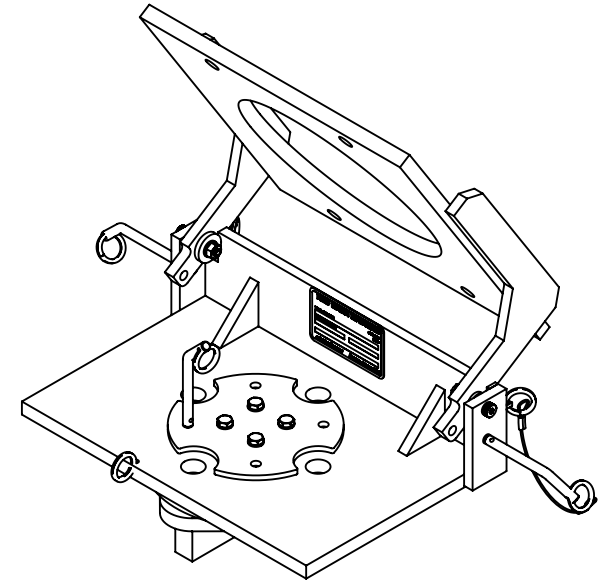


RED BARN MACHINE			
TITLE TROLLEY ADAPTER, TGB SUPPORT			
DWG NO. RBW6505G00831-3G			REV 2
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ±.5° .X ± .1		DRAWN BY: CLOUGH APPROVED <i>D. Weil</i> HEAT TREAT FINISH SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL AW139	
SCALE 1:4	DATE 2/6/2012	SHEET 1 OF 16	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.


REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

**TEO ATTACHED**



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-1	1	LEG ASSY. WELDMENT			3
	1		-3		PLATE	A36 P&O	1/2 X 11-5/8 X 11-5/8	4
	2		-5		LEG	A36 P&O	1/2 X 6 X 7-3/8	5
X			-7	1	SWIVEL PLATE WELDMENT			6
1			-9		PLATE	A36 P&O	1/2 X 8-1/8 X 12-11/16	7
1			-11		BACK PLATE	A36 P&O	3/8 X 3-1/8 X 12-5/8	8
2			-13		END	A36 P&O	3/8 X 1-1/2 X 3-5/16	9
2			-15		GUSSET	A36 P&O	3/8 X 1-3/16 X 1-3/16	10
1			-17		SHELF	1018	1/8 X 3/4 LEG X 12-7/16	11
			-19	1	SWIVEL BASE	1018	Ø7 X 1-3/8	12
			-21	1	SWIVEL PLATE	A36 P&O	3/16 X 5-1/2 X 5-1/2	13
			-23	1	BAR	6061	3/4 X 1-1/2 X 6-5/8	14
			-25	1	MOUNT PLATE	6061	1/2 X 6-1/8 6-1/8	15
		B/O	-27	2	SHOULDER SCEW	STEEL	Ø5/16 X 1 SHOULDER, 1/4-20 MCMASTER-CARR #91259A583	1
		B/O	-29	4	HEX HEAD CAP SCREW	STEEL	1/4-20 UNC X 3/4 MCMASTER-CARR #92620A540	1
		B/O	-31	4	FLAT WASHER	STEEL	Ø9/32 I.D. X 1/2 O.D. MCMASTER-CARR #94744A240	1
		B/O	-33	2	SOCKET HEAD CAP SCREW	STEEL	3/8-24 UNF X 5/8 MCMASTER-CARR #91251A421	1
		B/O	-35	2	SOCKET HEAD CAP SCREW	STEEL	3/8-24 UNF X 1-1/4 MCMASTER-CARR #91251A426	1
		B/O	-37	2	WASHER	BRASS	Ø11/32 I.D. X 11/16 O.D. X .11 - .14 MCMASTER-CARR #95395A226	1
		B/O	-39	2	LOCKNUT	STEEL	1/4-20 UNC MCMASTER-CARR #90949A016	1
			-41	3	PIN	STEEL	Ø5/16 X 2-1/2 USABLE MCMASTER-CARR #90146A059 (MODIFIED)	16
		B/O	-43	3	LANYARD	COATED GALV. STEEL	(7X7 CABLE) Ø1/16 X 6 CARR LANE #CL-2	1
		B/O	-45	6	OVAL SLEEVE	ALUMINUM	Ø1/16 X 3/8 MCMASTER-CARR #3896T31	1
		B/O	-47	6	SPLIT RING	STEEL	Ø1.10 O.D. MCMASTER-CARR #90177A219	1
		B/O	-49	1	RED BARN PLACARD	ALUMINUM	RB41009	1
		B/O	-51	4	#2 DRIVE SCREW	STEEL		N/S
		B/O	-53	2	WASHER	STEEL	Ø13/32 I.D. X 1 O.D. X .17-.2 MCMASTER-CARR #98099A031	1
ASSY #7	ASSY #1							

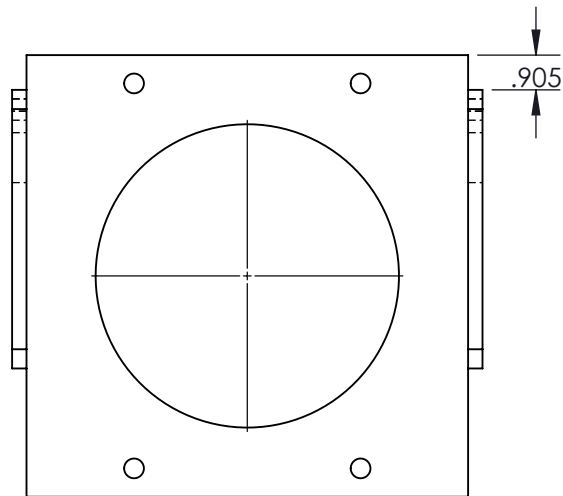
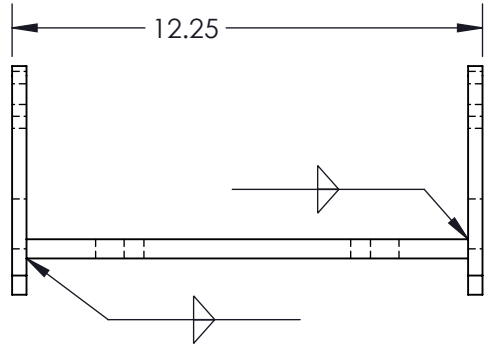
**SEE ATTACHED DEVIATION**

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> <b>TROLLEY ADAPTER, TGB SUPPORT</b>	
<b>DWG NO.</b> <b>RBW6505G00831-3G</b>	<b>REV</b> <b>2</b>
<b>MAT'L</b> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>DRAWN BY:</b> CLOUGH <b>APPROVED</b> <i>D Weil</i> <b>HEAT TREAT</b> <b>FINISH</b> <b>SPEC</b> <b>USED ON MODEL</b> <b>AW139</b>
<b>SCALE</b> 1:6 <b>DATE</b> 2/6/2012 <b>SHEET</b> 2 OF 16	

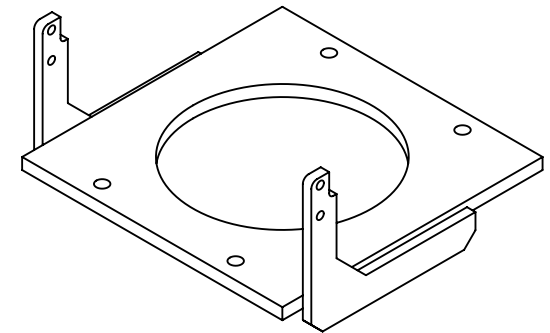
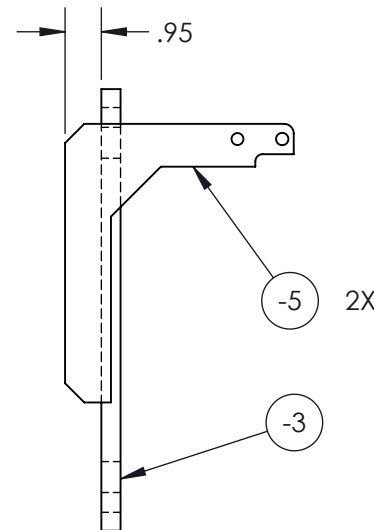
This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

**TEO ATTACHED**



(-1)  
LEG WELDMENT



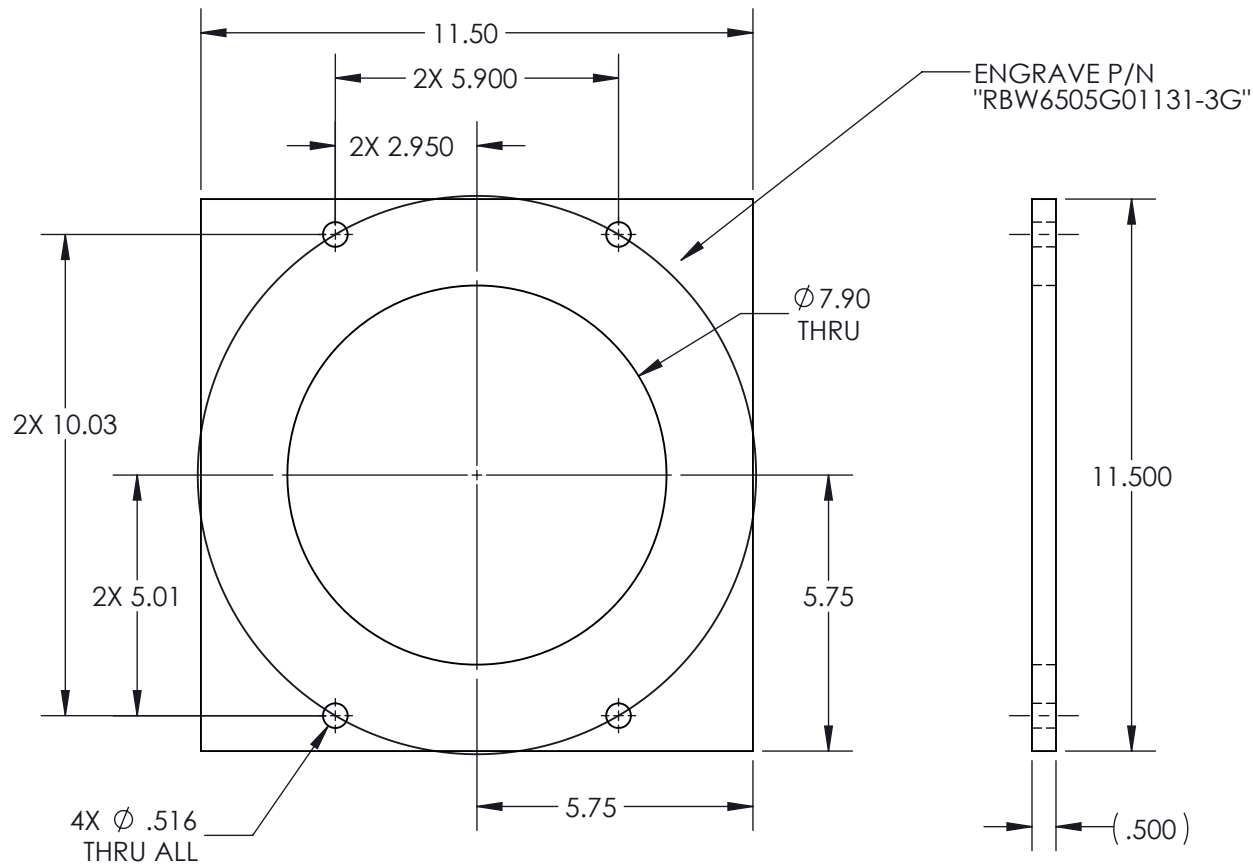
**SEE ATTACHED DEVIATION**

<div><div>RB</div></div>		RED BARN MACHINE	
TITLE TROLLEY ADAPTER, TGB SUPPORT			
DWG NO. RBW6505G00831-3G-1			REV 2
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1		DRAWN BY: CLOUGH APPROVED <i>D Weil</i> HEAT TREAT FINISH CAD PLATE YELLOW	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		SPEC QQ-P-416F, TYPE II, CLASS II	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL AW139	
SCALE	1:5	DATE	2/6/2012
		SHEET 3 OF 16	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

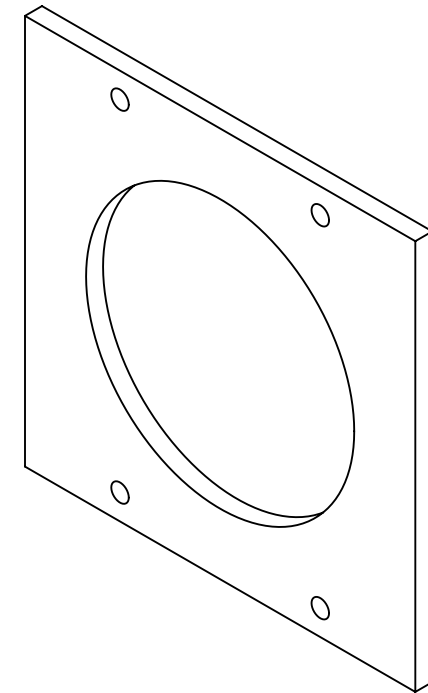
REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

**TEO ATTACHED**



(-3)

PLATE



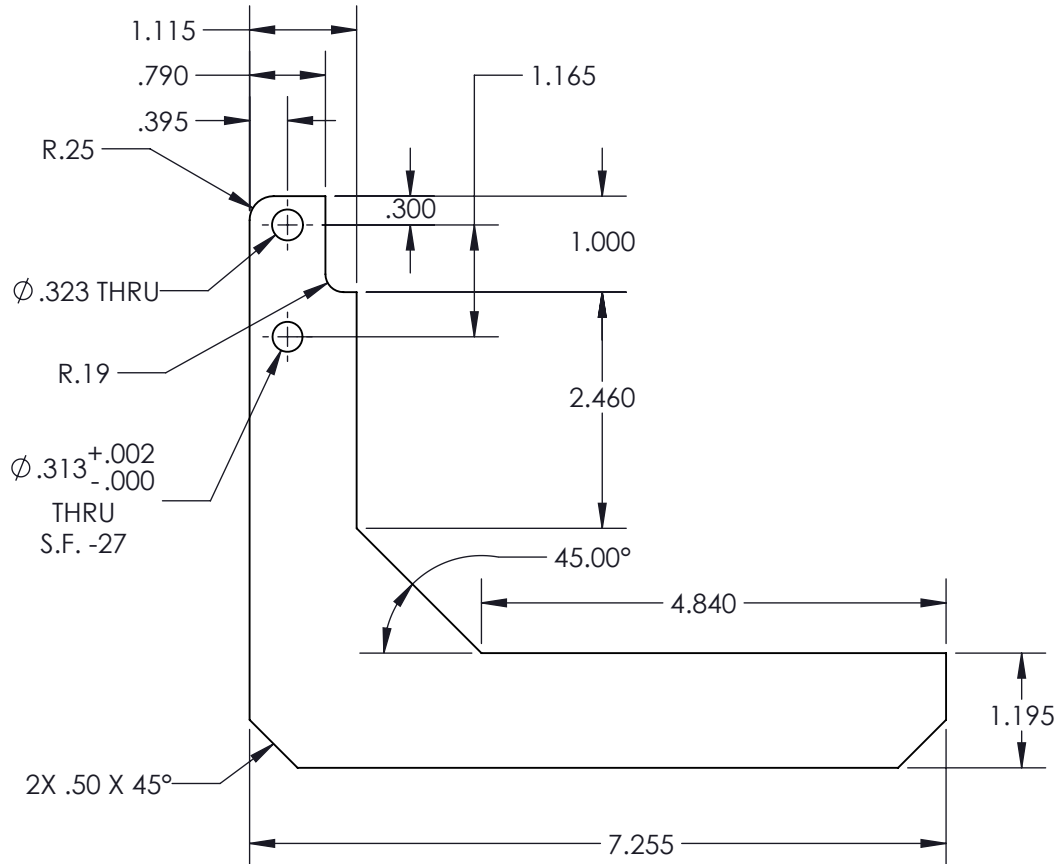
**SEE ATTACHED DEVIATION**

<b>RED BARN MACHINE</b>	
<b>TITLE</b> TROLLEY ADAPTER, TGB SUPPORT	
<b>DWG NO.</b> RBW6505G00831-3G-3	<b>REV</b> 2
<b>MAT'L</b> A36 P&O	<b>DRAWN BY:</b> CLOUGH
<b>UNLESS OTHERWISE SPECIFIED</b> DIMENSIONS ARE IN INCHES .XXX $\pm$ .005 .XX $\pm$ .01 .X $\pm$ .1 FRACTIONS $\pm$ 1/32 ANGLES $\pm$ 5°	<b>APPROVED</b> 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>HEAT TREAT FINISH</b> SPEC USED ON MODEL AW 139
<b>SCALE</b> 1:4	<b>DATE</b> 1/20/2012
SHEET 4 OF 16	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

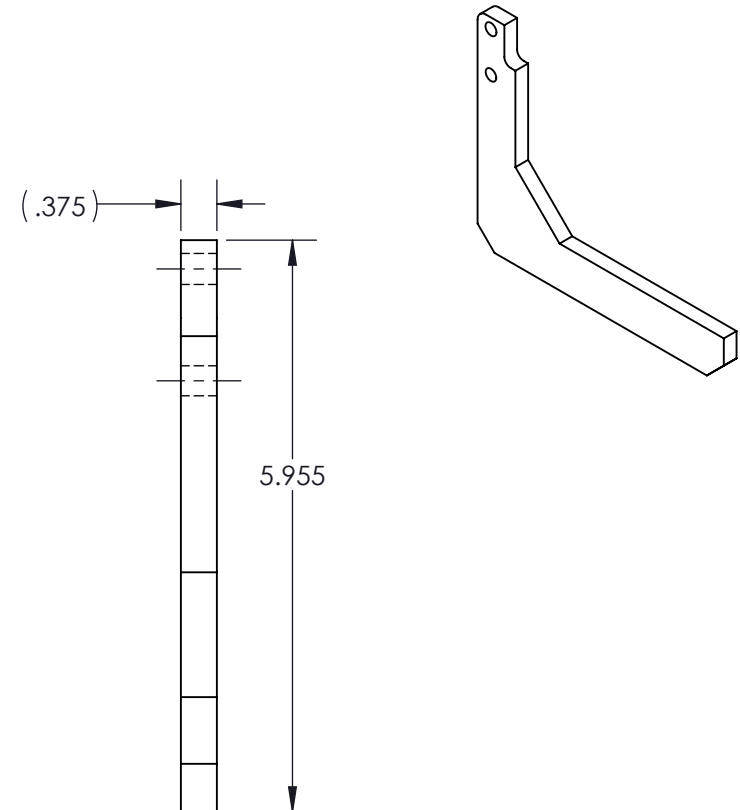
REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	SHEET 5 CH'D -5 DIMENSION LOCATION WAS 6.255 IS 7.255	5/10/2013	CFS	

**TEO ATTACHED**



(-5)

LEG



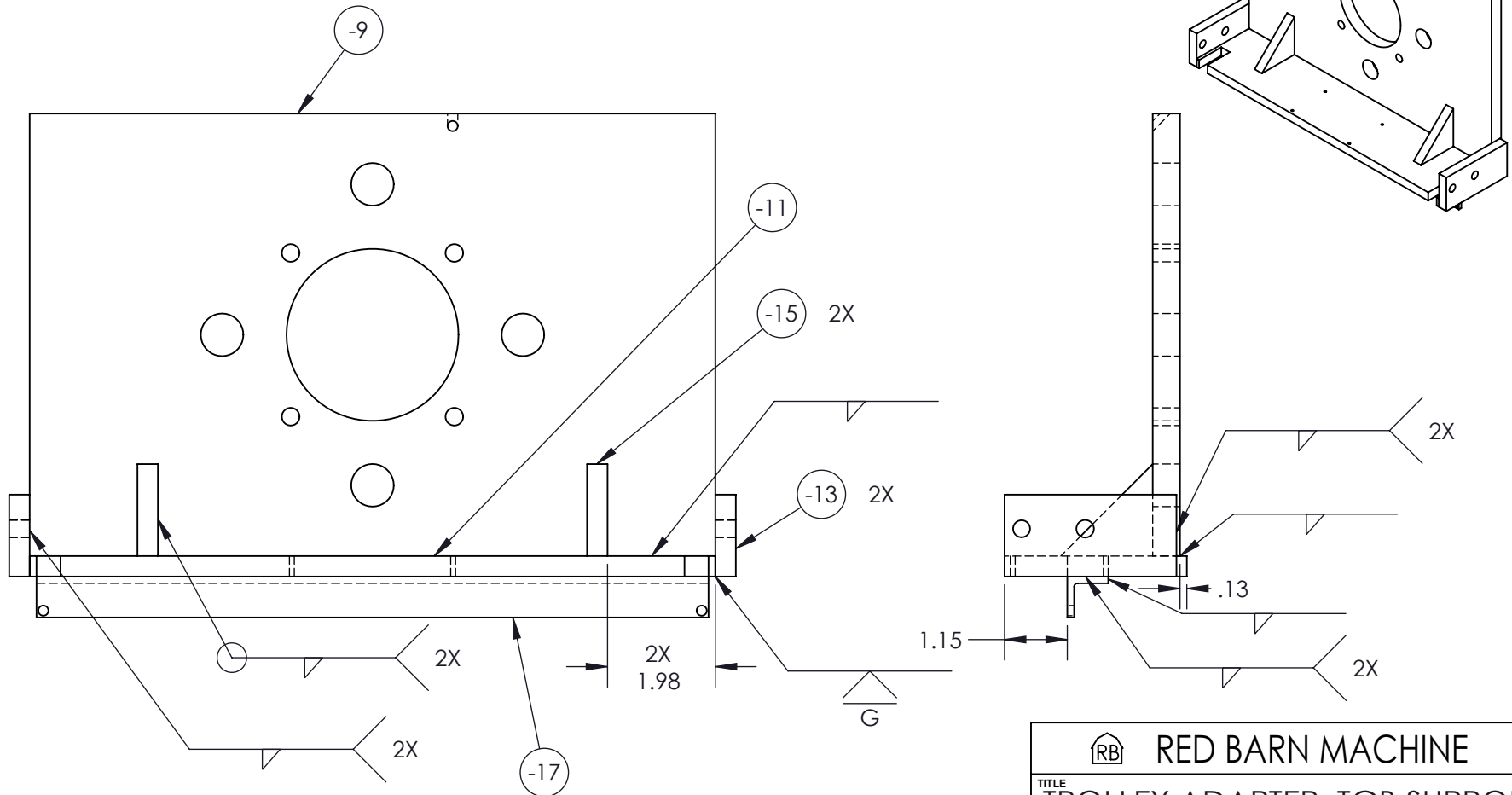
**SEE ATTACHED DEVIATION**

<b>RED BARN MACHINE</b>	
TITLE <b>TROLLEY ADAPTER, TGB SUPPORT</b>	
DWG NO. <b>RBW6505G00831-3G-5</b>	REV <b>2</b>
MAT'L A36 P&O	DRAWN BY: <b>CLOUGH</b>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 1/20/2012
SHEET 5 OF 16	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

**TEO ATTACHED**



(-7)  
SWIVEL PLATE WELDMENT

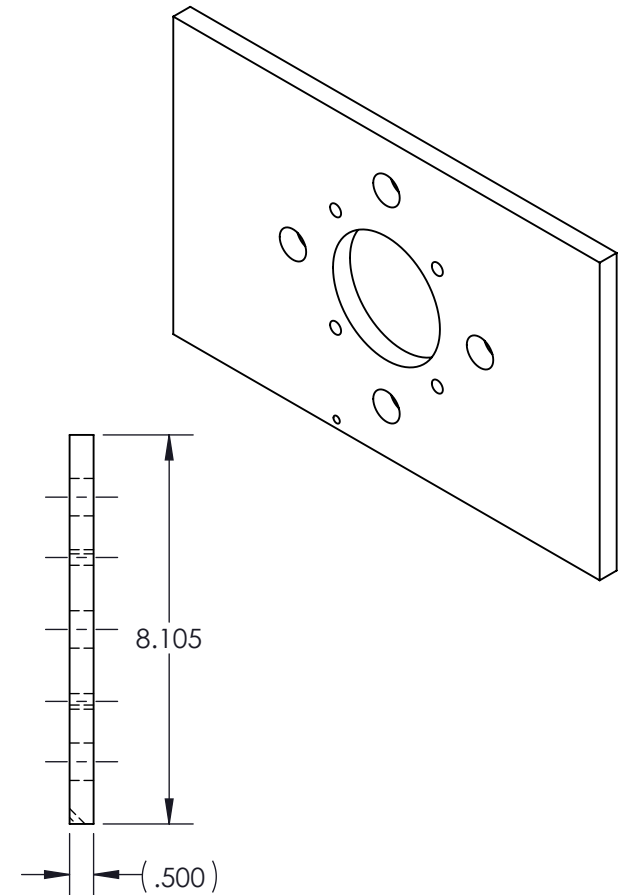
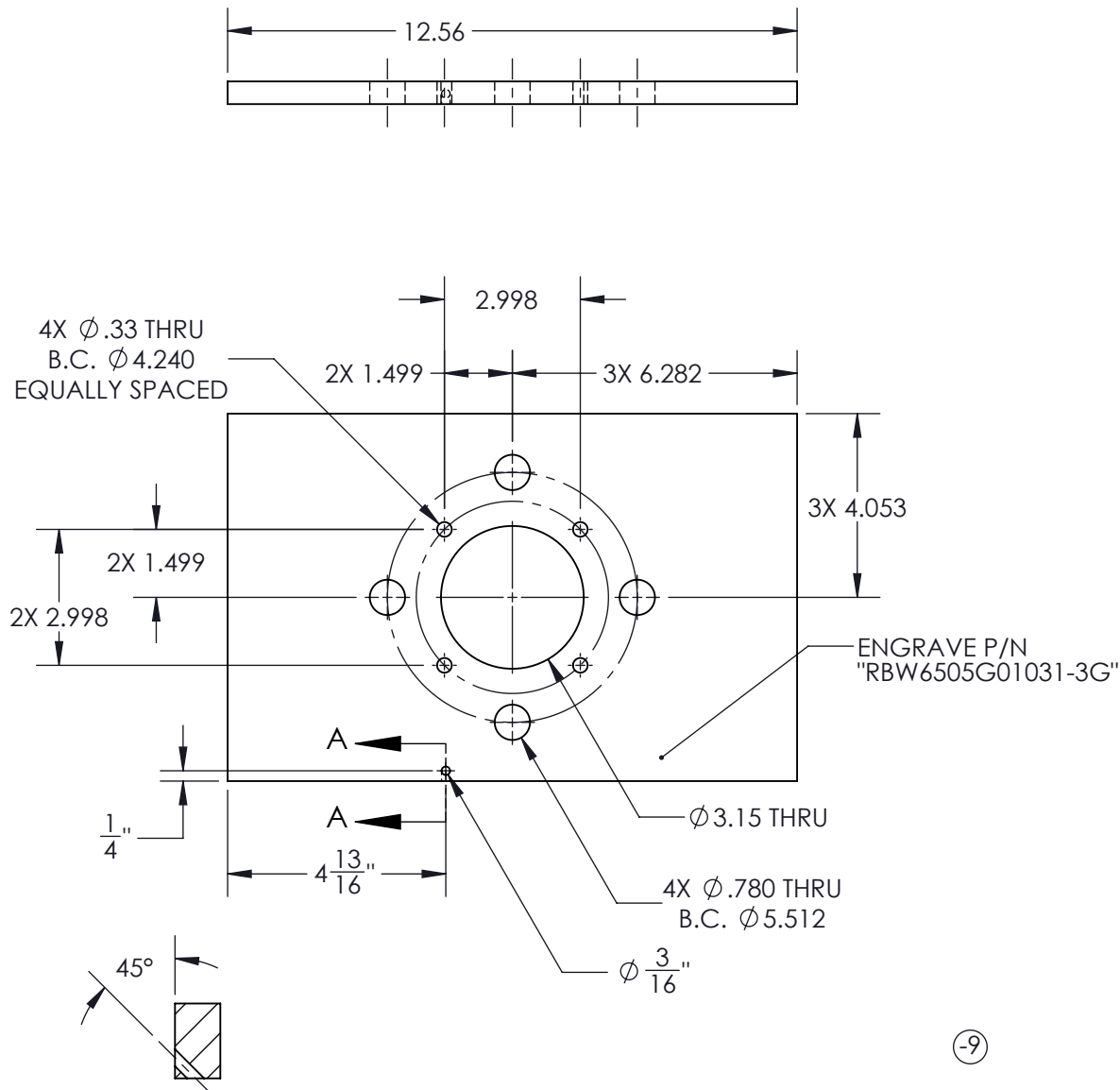
**SEE ATTACHED DEVIATION**

<b>RED BARN MACHINE</b>	
<b>TITLE</b> TROLLEY ADAPTER, TGB SUPPORT	
<b>DWG NO.</b> RBW6505G00831-3G-7	<b>REV</b> 2
<b>MAT'L</b>	<b>DRAWN BY:</b> CLOUGH
<b>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</b>	<b>APPROVED</b> <i>D Weil</i>
.XXX ± .005	<b>HEAT TREAT</b>
.XX ± .01	<b>FINISH</b> CAD PLATE YELLOW
.X ± .1	<b>SPEC</b> QQ-P-416F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	<b>USED ON MODEL</b>
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>AW139</b>
<b>SCALE</b> 1:3	<b>DATE</b> 2/6/2012
<b>SHEET 6 OF 16</b>	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
2	-9 CH'D 4X Ø.780 HOLE B.C. FROM Ø5.375 TO Ø5.512.	7/12/2013	RJC
			RW

**TEO ATTACHED**



SECTION A-A  
SCALE 1 : 2

(-9)  
PLATE

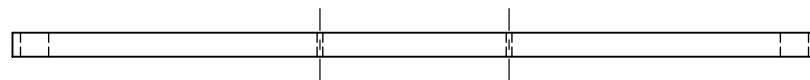
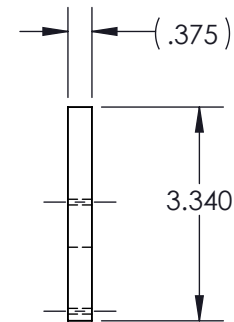
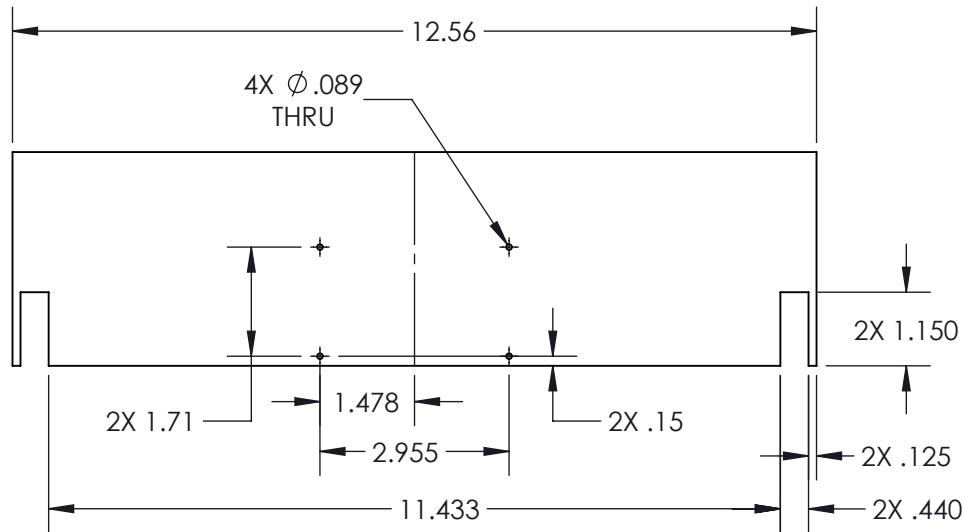
**SEE ATTACHED DEVIATION**

RED BARN MACHINE			
TITLE TROLLEY ADAPTER, TGB SUPPORT			
DWG NO.	RBW6505G00831-3G-9		REV 2
MAT'L A36 P&O	DRAWN BY: CLOUGH		APPROVED <i>D Weil</i>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		HEAT TREAT FINISH	
.XXX ± .005		FRACTIONS ± 1/32	
.XX ± .01		ANGLES ± 5°	
.X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		AW139	
SCALE	1:4	DATE	1/20/2012
		SHEET 7 OF 16	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.


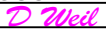
REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

**TEO ATTACHED**



(-11)  
BACK PLATE

**SEE ATTACHED DEVIATION**

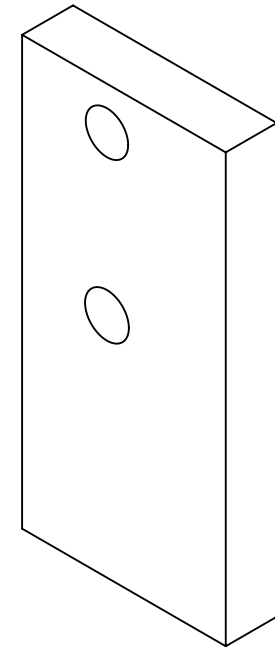
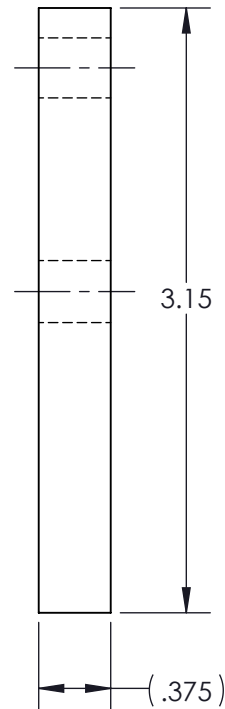
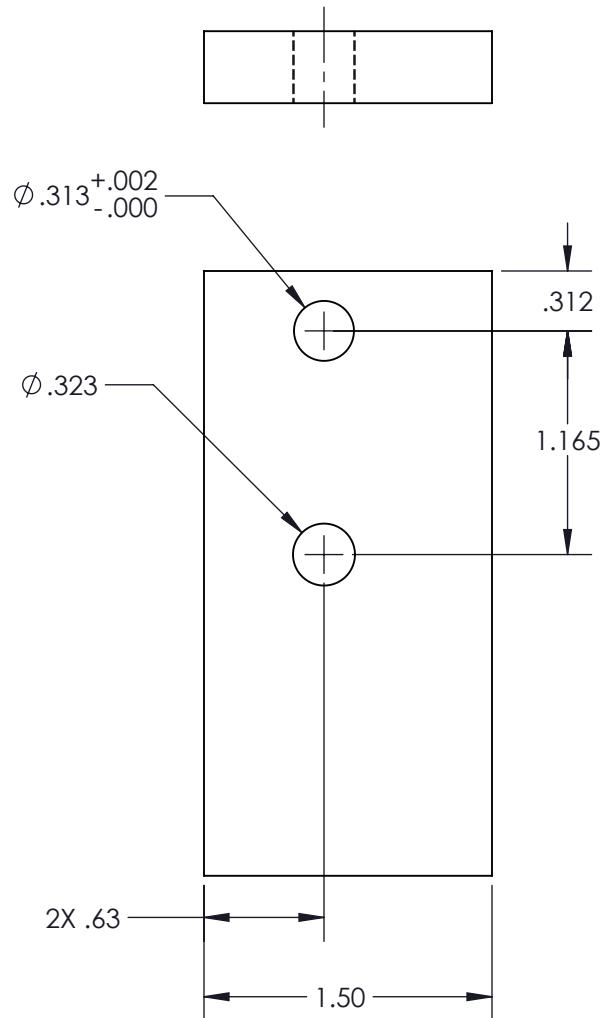
 <b>RED BARN MACHINE</b>	
<b>TITLE</b> <b>TROLLEY ADAPTER, TGB SUPPORT</b>	
<b>DWG NO.</b> RBW6505G00831-3G-11	<b>REV</b> <b>2</b>
<b>MAT'L</b> A36 P&O	<b>DRAWN BY:</b> CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	<b>APPROVED</b> 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>HEAT TREAT FINISH</b> <b>SPEC</b> USED ON MODEL AW 139
<b>SCALE</b> 1:3	<b>DATE</b> 2/3/2012
<b>SHEET 8 OF 16</b>	



This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED


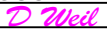
**TEO ATTACHED**



**SEE ATTACHED DEVIATION**

(-13)

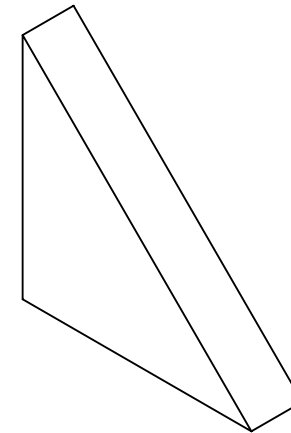
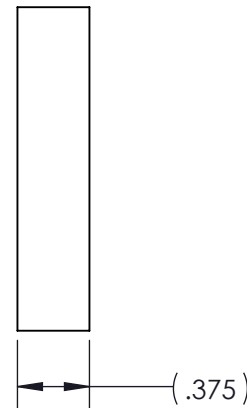
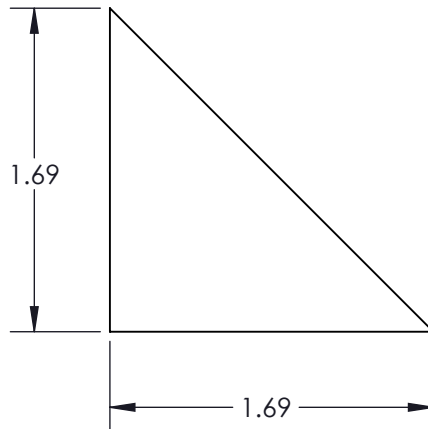
END

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> TROLLEY ADAPTER, TGB SUPPORT	
<b>DWG NO.</b> RBW6505G00831-3G-13	<b>REV</b> 2
<b>MAT'L</b> A36 P&O	<b>DRAWN BY:</b> CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX $\pm$ .005 .XX $\pm$ .01 .X $\pm$ .1 FRACTIONS $\pm$ 1/32 ANGLES $\pm$ 5°	<b>APPROVED</b> 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>HEAT TREAT</b> <b>FINISH</b> <b>SPEC</b> USED ON MODEL AW139
<b>SCALE</b> 1:1	<b>DATE</b> 2/3/2012
SHEET 9 OF 16	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED


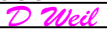
**TEO ATTACHED**



(-15)

GUSSET

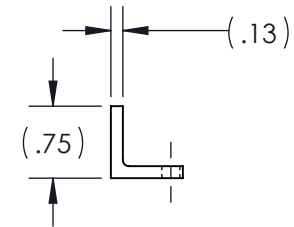
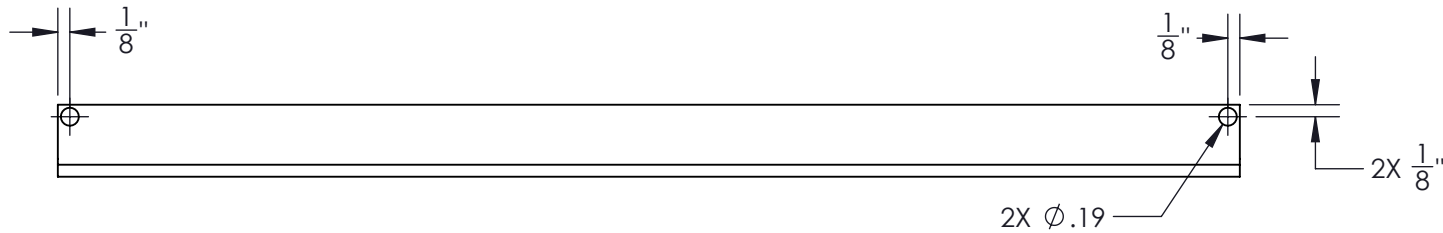
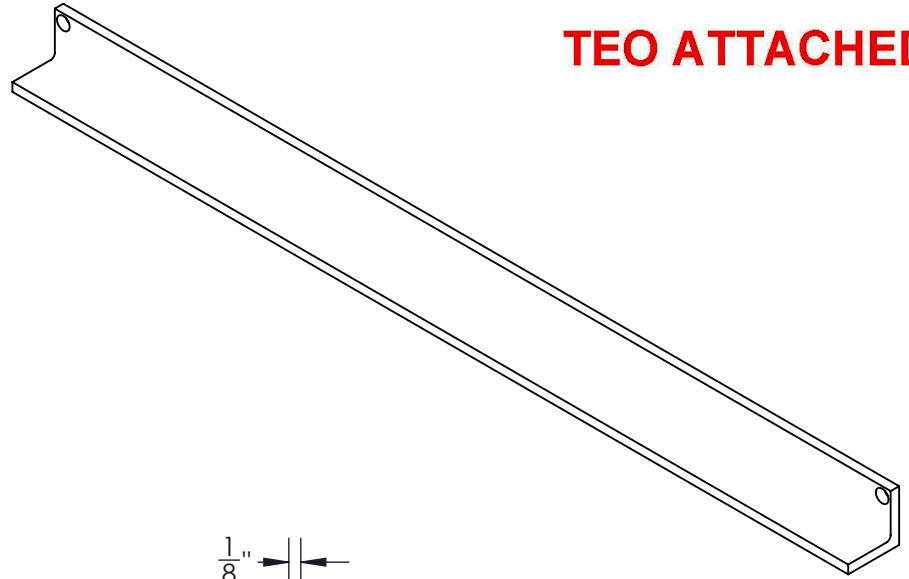
**SEE ATTACHED DEVIATION**

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> TROLLEY ADAPTER, TGB SUPPORT	
<b>DWG NO.</b> RBW6505G00831-3G-15	<b>REV</b> 2
<b>MAT'L</b> A36 P&O	<b>DRAWN BY:</b> CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005      FRACTIONS ± 1/32 .XX ± .01        ANGLES ± 5° .X ± .1	<b>APPROVED</b> 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>HEAT TREAT</b> <b>FINISH</b> <b>SPEC</b> USED ON MODEL AW 139
<b>SCALE</b> 1:1	<b>DATE</b> 2/3/2012
SHEET 10 OF 16	

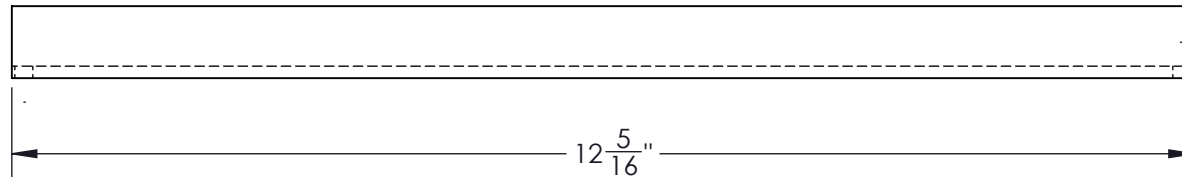
This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

**TEO ATTACHED**



**SEE ATTACHED DEVIATION**



(-17)

SHELF

<b>RED BARN MACHINE</b>	
<b>TROLLEY ADAPTER, TGB SUPPORT</b>	
DWG NO. RBW6505G00831-3G-17	REV 2
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 1/24/2012
SHEET 11 OF 16	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
2	-19 CH'D COUNTER BORED HOLES B.C. FROM $\phi 5.375$ TO $\phi 5.512$ .	7/12/2013	RJC	RW

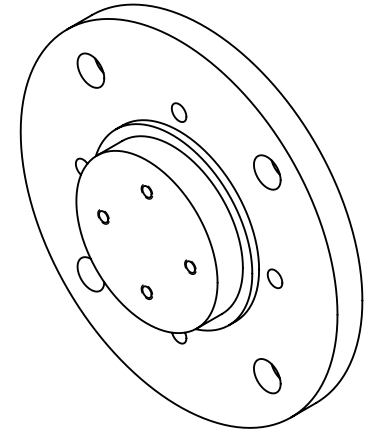
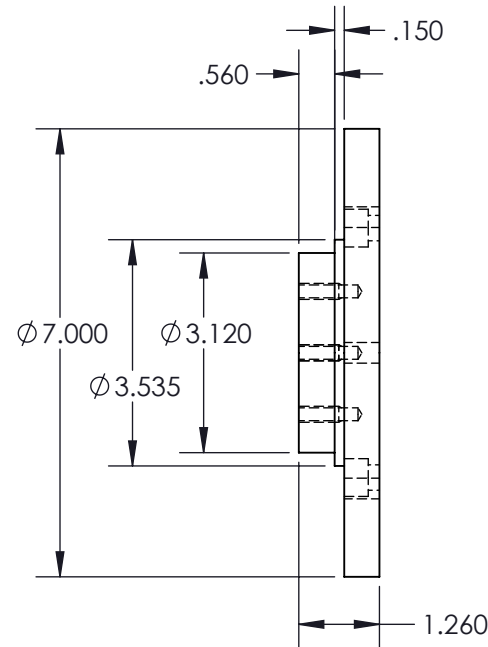
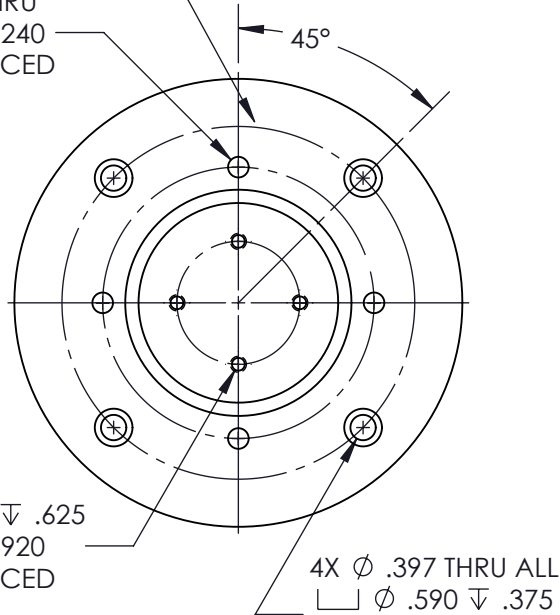
**TEO ATTACHED**

ENGRAVE P/N  
"RBW6505G01251-3G"

4X  $\phi .323$  THRU  
ON B.C.  $\phi 4.240$   
EQUALLY SPACED

4X 1/4-20 UNC  $\nabla .625$   
ON B.C.  $\phi 1.920$   
EQUALLY SPACED

4X  $\phi .397$  THRU ALL  
 $\square \phi .590 \nabla .375$   
ON  $\phi 5.512$  B.C.  
EQUALLY SPACED



**SEE ATTACHED DEVIATION**

(-19)

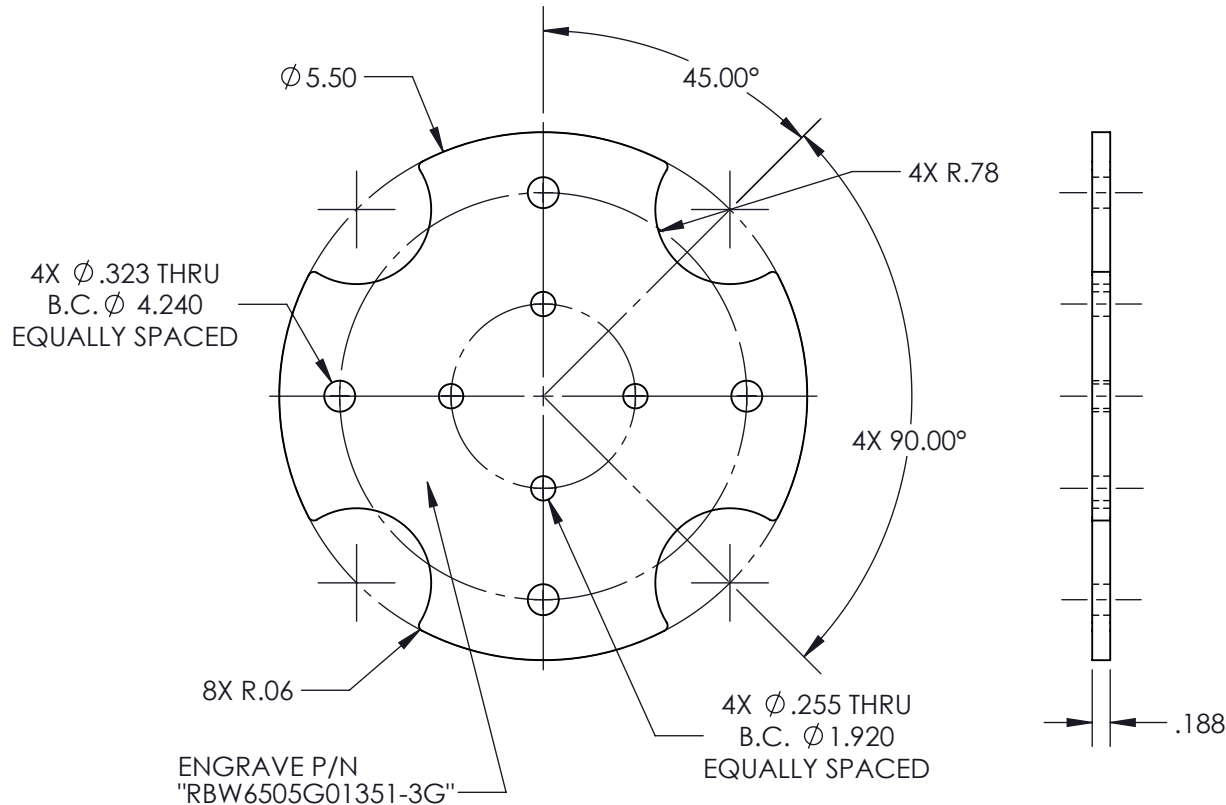
SWIVEL BASE

RED BARN MACHINE	
TITLE TROLLEY ADAPTER, TGB SUPPORT	
DWG NO. RBW6505G00831-3G-19	REV 2
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm .005$	HEAT TREAT
.XX $\pm .01$	FINISH
.X $\pm .1$	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC QQ-P-416F, TYPE II, CLASS II
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL AW139
SCALE 1:3	DATE 1/20/2012
SHEET 12 OF 16	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL

**TEO ATTACHED**



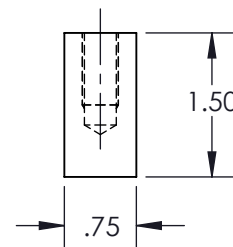
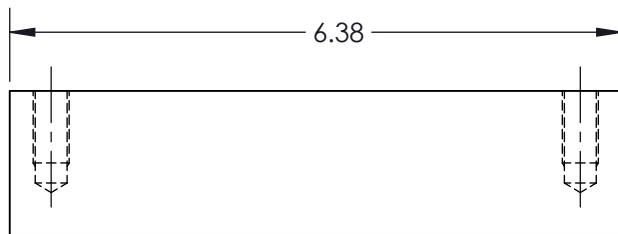
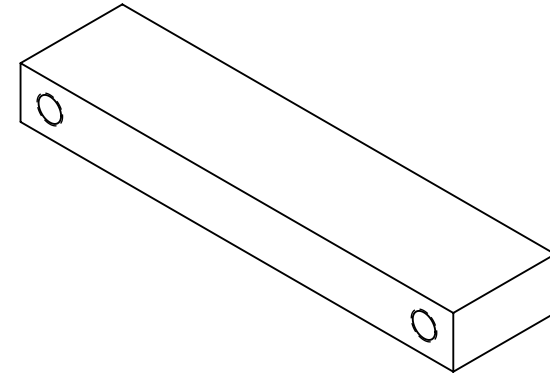
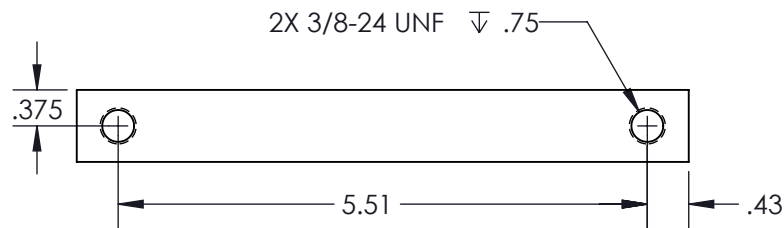
**SEE ATTACHED DEVIATION**

<b>RED BARN MACHINE</b>	
<b>TITLE</b> <b>TROLLEY ADAPTER, TGB SUPPORT</b>	
<b>DWG NO.</b> RBW6505G00831-3G-21	<b>REV</b> 2
<b>MAT'L</b> A36 P&O	<b>DRAWN BY:</b> CLOUGH
<b>UNLESS OTHERWISE SPECIFIED</b> <b>DIMENSIONS ARE IN INCHES</b> .XXX $\pm .005$ .XX $\pm .01$ .X $\pm .1$ FRACTIONS $\pm 1/32$ ANGLES $\pm 5^\circ$	<b>APPROVED</b> 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>HEAT TREAT FINISH</b> SPEC QQ-P-416F, TYPE II, CLASS II USED ON MODEL AW139
<b>SCALE</b> 1:2	<b>DATE</b> 1/20/2012
<b>SHEET 13 OF 16</b>	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.


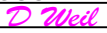
REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
2	-23 CH'D HOLE LOCATIONS FROM 5.38 TO 5.51.	7/12/2013	RJC	RW

**TEO ATTACHED**



**SEE ATTACHED DEVIATION**

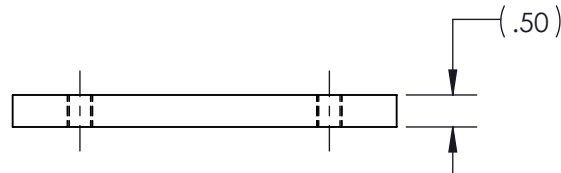
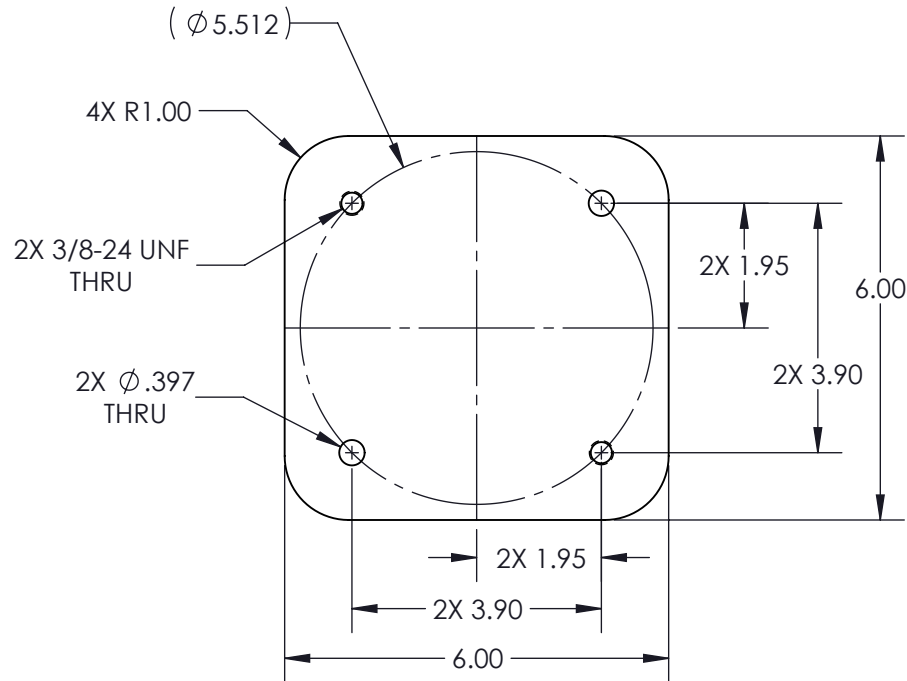
(-23)  
BAR

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> TROLLEY ADAPTER, TGB SUPPORT	
<b>DWG NO.</b> RBW6505G00831-3G-23	<b>REV</b> 2
<b>MAT'L</b> 6061	<b>DRAWN BY:</b> CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	<b>APPROVED</b>  <b>HEAT TREAT</b> FINISH SPEC MIL-A-8625F, TYPE II, CLASS 1 USED ON MODEL AW139
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
<b>SCALE</b> 1:2	<b>DATE</b> 1/20/2012
SHEET 14 OF 16	

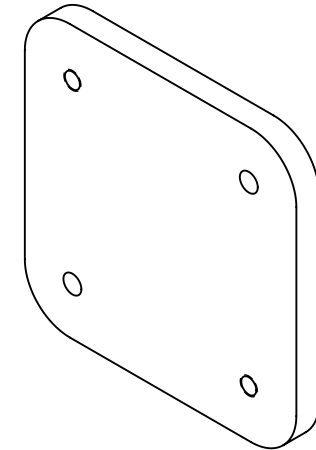
This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
2	-25 CH'D 3/8-24 AND Ø.397 HOLE LOCATIONS FROM 2X 1.90 AND 2X 3.80 TO 2X 1.95 AND 2X 3.90 AND ADDED Ø5.512 BOLT CIRCLE REF.	7/12/2013	RJC	4/12/13


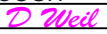
**TEO ATTACHED**



(-25)  
MOUNT PLATE



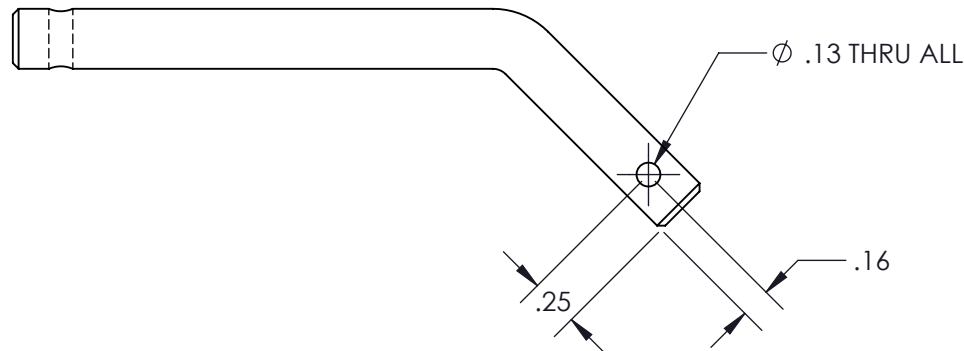
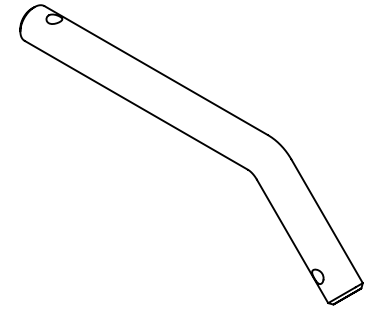
**SEE ATTACHED DEVIATION**

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> <b>TROLLEY ADAPTER, TGB SUPPORT</b>	
<b>DWG NO.</b> RBW6505G00831-3G-25	<b>REV</b> <b>2</b>
<b>MAT'L</b> 6061	<b>DRAWN BY:</b> CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	<b>APPROVED</b>  <b>HEAT TREAT</b> <b>FINISH</b> SPEC MIL-A-8625F, TYPE II, CLASS I USED ON MODEL AW139
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
<b>SCALE</b> 1:3	<b>DATE</b> 1/20/2012
SHEET 15 OF 16	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	ADDED SHEET 16 FOR -41	5/10/2013	CFS	



**TEO ATTACHED**



**SEE ATTACHED DEVIATION**

(-41)

PIN

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> <b>TROLLEY ADAPTER, TGB SUPPORT</b>	
<b>DWG NO.</b> RBW6505G00831-3G-41	<b>REV</b> <b>2</b>
<b>MAT'L</b> STEEL	<b>DRAWN BY:</b> SMITH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	<b>APPROVED</b> 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>HEAT TREAT</b> <b>FINISH</b> <b>SPEC</b> USED ON MODEL AW139
<b>SCALE</b> 1:1	<b>DATE</b> 5/10/2013
<b>SHEET 16 OF 16</b>	





ENGINEERING ORDER # TEO17-634

SCALE: NTS

SHEET 1 OF 1

DRAWING NO. RBW6505G00831-3G

REV: ~~1~~ 2

EFF.: NEXT ORDER

CHANGE CATEGORY

TITLE: TROLLEY ADAPTER, TGB SUPPORT

☐ MAJOR ☒ MINOR

DATE 17.09.06

*DM* APPROVED: WM 10/09/2017

QA APP.: *N/R*

MFG. APPR.: DP 09/21/2017

CHECKED: VM 09/13/2017

DRAWN: VM 09/13/2017

TRANSACTION CODE (TC):

A-ADD C-CREATE  
R-REVISE D-DELETE

REASON: PART # MISSING

COPYRIGHT © 2017 BY DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

WAS: ITEM # -51 #2 DRIVE SCREW

IS: ITEM #-51 #2 DRIVE SCREW McMaster#91654A076

DOCUMENTS EFFECTED: ☐ PATTERN ☐ INSTALL INSTRUCTIONS ☒ BOM

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. <u>RBW6505G00831-3G</u>  NCR No. _____		<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube <input type="checkbox"/></td> <td style="border: none;">Cross tube <input type="checkbox"/></td> <td style="border: none;">Water Jet <input type="checkbox"/></td> <td style="border: none;">Engineering <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Machining <input type="checkbox"/></td> <td style="border: none;">Small Fab <input type="checkbox"/></td> <td style="border: none;">Prod. Eng. Coord. <input type="checkbox"/></td> <td style="border: none;">Quality <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Thermoforming <input type="checkbox"/></td> <td style="border: none;">Finishing <input type="checkbox"/></td> <td style="border: none;">Rec/Store/Packaging <input type="checkbox"/></td> <td style="border: none;">Other <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Large Fab <input type="checkbox"/></td> <td style="border: none;">Composite <input type="checkbox"/></td> <td style="border: none;">Supplier <input type="checkbox"/></td> <td></td> </tr> </table>						Skid-tube <input type="checkbox"/>	Cross tube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																																															
Skid-tube <input type="checkbox"/>	Cross tube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>																																																																				
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>																																																																				
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>																																																																				
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																																																																					
Date :		Step #:		QTY Effective :			<b>MRB (QSI042) Approval</b>  JUNE 8, 2018																																																																
<b>Description Work Order Deviation</b>				<b>Disposition</b>			<b>Completed By</b>																																																																
- RBW6505G00831-3G-3 /-5/-9/-11/-13/-15/-21 material A36 P&O changed for A36/1010-1025  - Bead blast after welding  - Zinc plate yellow or black per ASTM B633 type 2, class 2				- This deviation is acceptable.  - The fit, form and function of the tool will be as originally intended.			<b>Lead hand / Supervisor Approval Verification</b>																																																																
							<b>QC / QA Coordinator Approval</b>																																																																
<b>Root Cause</b> <table style="width:100%; border: none;"> <tr><td style="border: none;">Environment <input type="checkbox"/></td><td style="border: none;">No Re-verification <input type="checkbox"/></td></tr> <tr><td style="border: none;">Design <input type="checkbox"/></td><td style="border: none;">Operator <input type="checkbox"/></td></tr> <tr><td style="border: none;">Doc/Data <input type="checkbox"/></td><td style="border: none;">Offset/Setup <input type="checkbox"/></td></tr> <tr><td style="border: none;">Equip/Tooling <input type="checkbox"/></td><td style="border: none;">Supplier <input type="checkbox"/></td></tr> <tr><td style="border: none;">Handling/Pre <input type="checkbox"/></td><td style="border: none;">Training <input type="checkbox"/></td></tr> <tr><td style="border: none;">Material <input checked="" type="checkbox"/></td><td style="border: none;">Use for Testing <input type="checkbox"/></td></tr> <tr><td style="border: none;">Internal Transport <input type="checkbox"/></td><td style="border: none;">Poor Information <input type="checkbox"/></td></tr> <tr><td style="border: none;">Tribal Knowledge <input type="checkbox"/></td><td style="border: none;">Rushing <input type="checkbox"/></td></tr> <tr><td style="border: none;">LOA <input type="checkbox"/></td><td style="border: none;">Product Improvement <input type="checkbox"/></td></tr> <tr><td style="border: none;">Substation <input type="checkbox"/></td><td style="border: none;">Process Improvement <input type="checkbox"/></td></tr> <tr><td style="border: none;">Past Expiry Date <input type="checkbox"/></td><td style="border: none;">Manufacturing Process <input type="checkbox"/></td></tr> <tr><td style="border: none;">Misidentified <input type="checkbox"/></td><td style="border: none;">Past Due <input type="checkbox"/></td></tr> </table>		Environment <input type="checkbox"/>	No Re-verification <input type="checkbox"/>	Design <input type="checkbox"/>	Operator <input type="checkbox"/>	Doc/Data <input type="checkbox"/>	Offset/Setup <input type="checkbox"/>	Equip/Tooling <input type="checkbox"/>	Supplier <input type="checkbox"/>	Handling/Pre <input type="checkbox"/>	Training <input type="checkbox"/>	Material <input checked="" type="checkbox"/>	Use for Testing <input type="checkbox"/>	Internal Transport <input type="checkbox"/>	Poor Information <input type="checkbox"/>	Tribal Knowledge <input type="checkbox"/>	Rushing <input type="checkbox"/>	LOA <input type="checkbox"/>	Product Improvement <input type="checkbox"/>	Substation <input type="checkbox"/>	Process Improvement <input type="checkbox"/>	Past Expiry Date <input type="checkbox"/>	Manufacturing Process <input type="checkbox"/>	Misidentified <input type="checkbox"/>	Past Due <input type="checkbox"/>	<b>FAULT CATEGORY</b> <table style="width:100%; border: none;"> <tr> <td style="border: none;">Pressure/Forced <input type="checkbox"/></td> <td style="border: none;">Temperature/Cure <input type="checkbox"/></td> <td style="border: none;">Power Loss/Surge <input type="checkbox"/></td> <td style="border: none;">Positioned Wrong <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Bending <input type="checkbox"/></td> <td style="border: none;">Set-up <input type="checkbox"/></td> <td style="border: none;">Folio/Program <input type="checkbox"/></td> <td style="border: none;">Outside Dimensions <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Centre Not Concentric <input type="checkbox"/></td> <td style="border: none;">BOM/Route <input type="checkbox"/></td> <td style="border: none;">Grain <input type="checkbox"/></td> <td style="border: none;">Over/Under tolerance <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Cracks <input type="checkbox"/></td> <td style="border: none;">Broken/Damage/Defect <input type="checkbox"/></td> <td style="border: none;">Weld <input type="checkbox"/></td> <td style="border: none;">Part Incorrect <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Crimp/Kink/Ripple/Wave <input type="checkbox"/></td> <td style="border: none;">Inspection Incomplete/Unqualified <input type="checkbox"/></td> <td style="border: none;">Wrong Stock Pulled <input type="checkbox"/></td> <td style="border: none;">Part Lost/Missing <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Cuffs <input type="checkbox"/></td> <td style="border: none;">Contamination <input type="checkbox"/></td> <td style="border: none;">Out of Sequence <input type="checkbox"/></td> <td style="border: none;">Part Moved <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Crushing <input type="checkbox"/></td> <td style="border: none;">Countersink <input type="checkbox"/></td> <td style="border: none;">Off-set <input type="checkbox"/></td> <td style="border: none;">Drawing <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Heat Treat <input type="checkbox"/></td> <td style="border: none;">Cut Too Short <input type="checkbox"/></td> <td style="border: none;">Mislabeled <input type="checkbox"/></td> <td style="border: none;">Finish <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Wave/Twist in Tube <input type="checkbox"/></td> <td style="border: none;">Instructions Incomplete/Unclear <input type="checkbox"/></td> <td style="border: none;">Fit/Function <input type="checkbox"/></td> <td style="border: none;">Misread <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Marks/Chatter <input type="checkbox"/></td> <td style="border: none;">Drill Holes <input type="checkbox"/></td> <td style="border: none;">Misaligned/off center <input type="checkbox"/></td> <td style="border: none;">Turning Sequence <input type="checkbox"/></td> </tr> </table>						Pressure/Forced <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>	Bending <input type="checkbox"/>	Set-up <input type="checkbox"/>	Folio/Program <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>	Centre Not Concentric <input type="checkbox"/>	BOM/Route <input type="checkbox"/>	Grain <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>	Cracks <input type="checkbox"/>	Broken/Damage/Defect <input type="checkbox"/>	Weld <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>	Crimp/Kink/Ripple/Wave <input type="checkbox"/>	Inspection Incomplete/Unqualified <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>	Cuffs <input type="checkbox"/>	Contamination <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>	Part Moved <input type="checkbox"/>	Crushing <input type="checkbox"/>	Countersink <input type="checkbox"/>	Off-set <input type="checkbox"/>	Drawing <input type="checkbox"/>	Heat Treat <input type="checkbox"/>	Cut Too Short <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Finish <input type="checkbox"/>	Wave/Twist in Tube <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Fit/Function <input type="checkbox"/>	Misread <input type="checkbox"/>	Marks/Chatter <input type="checkbox"/>	Drill Holes <input type="checkbox"/>	Misaligned/off center <input type="checkbox"/>	Turning Sequence <input type="checkbox"/>
Environment <input type="checkbox"/>	No Re-verification <input type="checkbox"/>																																																																						
Design <input type="checkbox"/>	Operator <input type="checkbox"/>																																																																						
Doc/Data <input type="checkbox"/>	Offset/Setup <input type="checkbox"/>																																																																						
Equip/Tooling <input type="checkbox"/>	Supplier <input type="checkbox"/>																																																																						
Handling/Pre <input type="checkbox"/>	Training <input type="checkbox"/>																																																																						
Material <input checked="" type="checkbox"/>	Use for Testing <input type="checkbox"/>																																																																						
Internal Transport <input type="checkbox"/>	Poor Information <input type="checkbox"/>																																																																						
Tribal Knowledge <input type="checkbox"/>	Rushing <input type="checkbox"/>																																																																						
LOA <input type="checkbox"/>	Product Improvement <input type="checkbox"/>																																																																						
Substation <input type="checkbox"/>	Process Improvement <input type="checkbox"/>																																																																						
Past Expiry Date <input type="checkbox"/>	Manufacturing Process <input type="checkbox"/>																																																																						
Misidentified <input type="checkbox"/>	Past Due <input type="checkbox"/>																																																																						
Pressure/Forced <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>																																																																				
Bending <input type="checkbox"/>	Set-up <input type="checkbox"/>	Folio/Program <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>																																																																				
Centre Not Concentric <input type="checkbox"/>	BOM/Route <input type="checkbox"/>	Grain <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>																																																																				
Cracks <input type="checkbox"/>	Broken/Damage/Defect <input type="checkbox"/>	Weld <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>																																																																				
Crimp/Kink/Ripple/Wave <input type="checkbox"/>	Inspection Incomplete/Unqualified <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>																																																																				
Cuffs <input type="checkbox"/>	Contamination <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>	Part Moved <input type="checkbox"/>																																																																				
Crushing <input type="checkbox"/>	Countersink <input type="checkbox"/>	Off-set <input type="checkbox"/>	Drawing <input type="checkbox"/>																																																																				
Heat Treat <input type="checkbox"/>	Cut Too Short <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Finish <input type="checkbox"/>																																																																				
Wave/Twist in Tube <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Fit/Function <input type="checkbox"/>	Misread <input type="checkbox"/>																																																																				
Marks/Chatter <input type="checkbox"/>	Drill Holes <input type="checkbox"/>	Misaligned/off center <input type="checkbox"/>	Turning Sequence <input type="checkbox"/>																																																																				
OTHER : <input type="checkbox"/>																																																																							